

What is claimed is:

1. An elongate medical device suitable for packaging in a generally tubular member, the generally tubular member having a lumen defined by an inner surface, the elongated medical device comprising:

an elongate shaft;

a hub assembly connected to the elongate shaft, the hub assembly including at least a portion manufactured from a first material; and

an interference fit member including a second material disposed about at least a part of the portion of the hub assembly including the first material, the interference fit member configured to form an interference fit with the inner surface of the generally tubular member when the elongate shaft and the interference fit member are disposed within the lumen of the generally tubular member.

2. The elongate medical device of claim 1, wherein the hub assembly further comprises:

a distal portion including at least a segment having a generally circular cross-section including the first material; and

a channel extending circumferentially around the segment of the distal portion of the hub assembly including the first material, wherein the interference fit member is disposed about the channel.

3. The elongate medical device of claim 1, wherein the hub assembly further comprises:

a manifold having a distal portion including the first material, wherein the interference fit member is disposed about the distal portion of the manifold.

4. The elongate medical device of claim 3, wherein the hub assembly further comprises:

a strain relief member, wherein the manifold and the strain relief member are integrally formed.

5. The elongate medical device of claim 1, wherein the hub assembly further comprises:

a strain relief member, wherein the interference fit member is disposed about the strain relief member.

6. The elongate medical device of claim 5, wherein the hub assembly further comprises:

a manifold, wherein the strain relief member is affixed to the manifold.

7. The elongate medical device of claim 1, wherein the second material is more compressible than the first material.

8. The elongate medical device of claim 1, wherein the second material is readily deformable compared to the first material.

9. The elongate medical device of claim 1, wherein the second material is elastomeric.

10. The elongate medical device of claim 1, wherein the interference fit member is a bead adhered to the first material.

11. The elongate medical device of claim 1, wherein the interference fit member is an O-ring.

12. The elongate medical device of claim 11, wherein the O-ring comprises silicone.

13. The elongate medical device of claim 1, wherein the interference fit member is an elongated elastomeric sleeve.

14. An elongate medical device suitable for packaging in a generally tubular member, the generally tubular member having a lumen defined by an inner surface, the elongate medical device comprising:

- an elongate shaft having a proximal portion;
- a hub assembly including at least a portion manufactured from a first material, the hub assembly connected to the proximal portion of the elongate shaft;
- a first circumferential channel formed about the portion of the hub assembly including the first material;

at least a second circumferential channel formed about the hub assembly;

a first interference fit member including a second material, the first interference fit member disposed about at least a portion of the first circumferential channel; and

at least a second interference fit member disposed about at least a portion of the at least a second circumferential channel, wherein either the first interference fit member or the at least a second interference fit member is configured to engage the inner surface of the generally tubular member when the elongate shaft and the first or the at least a second interference fit member are disposed in the lumen of the elongated medical device.

15. The elongate medical device of claim 14, wherein the hub assembly further comprises a manifold, wherein the first circumferential channel is formed about the manifold.

16. The elongate medical device of claim 14, wherein the hub assembly further comprises a strain relief member, wherein the first circumferential channel is formed about the strain relief member.

17. The elongate medical device of claim 14, wherein the first interference fit member has an outer diameter and the at least a second interference fit member has an outer diameter greater than the outer diameter of first the interference fit member.

18. The elongate medical device of claim 14, wherein the first circumferential channel is larger than the at least a second circumferential channel.

19. An elongate medical device suitable for packaging in a generally tubular member, the generally tubular member having a lumen defined by an inner surface, the elongate medical device comprising:

an elongate shaft having a proximal portion;

a hub assembly including at least a portion manufactured from a first material, the hub assembly connected to the proximal portion of the elongate shaft, wherein the portion of the hub assembly manufactured from the first material includes a circumferential channel; and

a circumferential interference fit member comprising an elastomeric material, the circumferential interference fit member disposed about at least a portion of the circumferential channel, wherein the circumferential interference fit member is configured to form an interference fit with the inner surface of the generally tubular member when the elongate shaft and the circumferential interference fit member are disposed in the lumen of the tubular member.

20. The elongate medical device of claim 19, wherein the hub assembly further comprises:

a manifold having a distal portion including the first material, wherein the circumferential interference fit member is disposed about the distal portion of the manifold.

21. The elongate medical device of claim 20, wherein the hub assembly further comprises:

a strain relief member, wherein the manifold and the strain relief member are integrally formed.

22. The elongate medical device of claim 19, wherein the hub assembly further comprises:

a strain relief member, wherein the circumferential interference fit member is disposed about the strain relief member.

23. The elongate medical device of claim 22, wherein the hub assembly further comprises:

a manifold, wherein the strain relief member is affixed to the manifold.

24. The elongate medical device of claim 19, wherein the circumferential interference fit member is an O-ring.

25. The elongate medical device of claim 19, wherein the circumferential interference fit member is an elongated sleeve.

26. An elongate medical device packaging assembly comprising:
a generally tubular packaging member having a lumen defined by an inner surface;

an elongate shaft having a proximal portion;

a hub assembly connected to the proximal portion of the elongate shaft, the hub assembly including at least a portion manufactured from a first material; and

an interference fit member including a second material disposed about at least a part of the portion of the hub assembly including the first material, the interference fit member configured to form an interference fit with the inner surface of the generally tubular packaging member when the elongate shaft and the interference fit member are disposed within the lumen of the generally tubular packaging member.